## December 13, 1842.

## Prof. Rymer Jones in the Chair.

A letter from A. N. Shaw, Esq., Corresponding Member, dated Dhawar, October 14, 1842 , was read. It announces that a young Tiger and a Bear, which that gentleman had presented to the Society, were in the possession of Sir Jamsetjie Jejubhoy, of Bombay, who had kindly undertaken to forward them to England free of expense.

Two letters from the Society's Corresponding Member, E. D. Dickson, Esq., were read. The first, dated Constantinople, October 2, 1842, announces that Mr. Dickson had forwarded as a present to the Society a collection of specimens, preserved in spirit, part of which was a donation from himself and part from H. J. Ross, Esq., Corresponding Member. The second letter is dated Tripoli, October 24, 1842 ; it acknowledges the receipt of letters, \&c. from the Society, and states that another collection had been forwarded for the Society. Some of the specimens in this latter collection were procured by Mr. Ross at Samsoon, and the remainder by Mr. Dickson.

The following paper, by G. Newport, Esq., "On some new ge. nera of the class Myriapoda," was then read:-
"The family Geophilida of Leach, composed of those little, gliding, wormlike Myriapodes so abundant in our gardens, and yet so imperfectly known to the scientific naturalist, includes at least two distinct genera, one of which only has hitherto been characterised. Dr. Leach himself, to whom we are indebted for the foundation of nearly all the scientific knowledge we possess of these animals, appears to have regarded one of the five native species with which he was acquainted as distinct from the others, and placed it accordingly in a division of his genus Geophilus, founding his divisions on the comparative length of the joints of the antennæ. These divisions, with the same distinguishing characters, have been retained by M. Gervais, who in 1837 published a monograph on the whole class, and added a third section to the genus Geophilus, composed of two species, one of which, Geophilus ferrugineus, had been described by Koch; and the other, Geophilus muxillaris, was then first described by M. Gervais as a new species. It is this division, added by M. Gervais, the Geophili maxillares, which I now propose to establish as a separate genus, under the name of Mecistocephalus, the characters of which, derived from the peculiarly elongated form of the head, are as distinctly marked as in any genus of this order.
" In a collection of Myriapoda, from the magnificent cabinet of the No. CXIX.-Proceenings of the Zool. Soc.

Kev. F. W. Hope, which that geutleman many months ago, in the most handsome manner, placed entirely at my control for the purpose of describing, I discovered a third species, brought to this country by the late Rev. Lansdowne Guilding, from the island of St. Vincent, which I immediately recognized as a new genus; and on examining the unarranged specimens of Myriapoda in the coliections of the British Museum, which the head of the zoological department, J. E. Gray, Esq., has kindly permitted me to describe and arrange, I have since found two other species, both new to science, one of which was brought from India by - Elliot, Esq., but the locality of the other is unknown. The genus I am now about to propose will thus include five species, agreeing most accurately in their generic characters. They are all of them foreign to this country. The only native species which at all approaches to Mecistocephalus is the Geophilus longicornis of Leach, supposed by M. Gervais to be Scolopendra electrica of Linnæus, which constitutes Leach's second section of Geophilus. This I propose to separate as a distinct subgenus, by the name of Necrophlcophayus, although its characters are not so distinctly marked as in the preceding. The name proposed for it is derived from its being mostly found under rotten wood, or under the rotten bark of trees.
" Before I proceed to characterize these genera, it may be well to remark, that the construction of the head in these, as compared with the other Geophili and the Scolopendra, seems to throw much light on the number of parts which are included in this division of the body in the higher Articulata, and on the manner in which these parts are united; and although I do not intend on the present occasion to enter on the consideration of these structures, which I propose to do hereafter, it is necessary to state that I regard the head of the Chilopodu as formed of two compound moveable portions, the anterior of which, bearing the antennæ, I shall designate the frontal segment ; and the posterior, which gives attachment to the large forcipated foot-jaws, which I regard as the analogues of the mandibles of insects, I shall call the basilar segment. Posterior to these there is a third part, which, although perfectly distinct in all the Geophilida, is united to the basilar in the Scolopendree and higher genera of this order, forming a kind of cephalo-thorax or cephalo-prothorax. This I shall consider the second or sub-basilar segment.
"It is on claracters derived from these parts that I now propose to establish the genera."

## Class MYRIAPODA.

## Order 1. Chilopoda.

Family Geophilide, Leach.
Section A. Geophili maxillares, Gervais.
Genus Mecistocephalus*, Newport.
Characters.- Frontal segment very narrow, elongated, four-sided, more than twice as long as broad, antennæ inserted on the frontal

[^0]margin, subapproximated, three times as long as the frontal segment; joints obconic, rather elongated, slightly hairy ; busilar segment quadrate, very short, and much narrower than the frontal, almost atrophied on the dorsal surface; labium and inferior surface of the basilar segment very large, quadrate, extending backwards beneath the subbasilar segment, with its anterior margin slightly excavated; mundibles enlarged, straightened, and projecting, but curved and pointed at their apex, with the internal margin acute aud denticulated, and the basilar joint encroaching on the dorsal surface of the basilar segment. Sub-basilar segment large, transverse, with the anterior margin straight, and the posterior and angles rounded. Body gradually tapering ; legs from forty-five to seventy pairs; posterior pair styliform.

Species 1. Mecistocephalus ferrugineus, Koch.
2. Mecistocephalus maxillaris, Gervais.
3. Mecistocephalus punctifrons, Newport.

Frontal segment and mandibles deeply punctured, with the basilar segment and lalium dark chestnut; body testaceous, mandibles ench with two large acute teeth; legs forty-nine pairs.

Length two inches three-tenths. India : - Elliot, Esq.
In the collection at the British Museum.
Frontal segment polished, with small scattered punctures; mandibles very strong, polished, and deeply punctured on the superior surface, with the internal margin acute, with two large sharp teeth; labium flattened, polished, with a longitudinal depression, and a few minute, scattered punctures ; body gradually tapericg, but broad and strong anteriorly; legs forty-nine pairs, broad, strong.
"I am uncertain whether this specimen had arrived at its full growth, the number of legs being less than in the other species. It may nevertheless have acquired its proper number since the species described by M. Gervais has but forty-six pairs, and I have ascertained most satisfactorily that the whole of the Chilopoda acquire very nearly their full complement of legs before they have attained to one half o. their adult size."

## 4. Mecistocephalus Guildingii, Newport.

Frontal segment polished, with a few scattered punctures; sides and posterior angles rounded, ferruginous ; mandibles quadridentated ; basilar segment and labium polished, ferruginous, with a broad, longitudinal sulcus and deep punctures on the latter; body yellowish, testaceous; legs forty-nine pairs. Length one inch and a half.

Island of St. Vincent. Rev. Lansdowne Guilding.
In the cabinet of the Rev. F. W. Hope.
There are five specimens of this species, varying considerably in size, but agreeing most accurately in the number of their legs.
5. Mecistocephalus punctilabium, Newport.

Head, mandibles, labium and sub-basilar segment ferruginous; mandibles tridentated; body brownish-green, with the two posterior segments antennæ and legs ochraceous. Frontal segment and labium flattened, the latter deeply, and thickly punctured. Legs sixtyone pairs.

Length two inches. Country ?
In the collection of the British Museum.
The frontal segment of this species is flattened and punctured, with the posterior margin straight, and the auterior somewhat rounded; the mandibles are smooth, polished, rather straightened, and rounded, with the internal margin less acute, with two or three very small teeth; labium flattened, polished, with large, numerous and deeply impressed punctures, and a longitudinal median sulcus, with a slight emargination; dorsal surface of the body with three longitudinal sulci; anal styles five-jointed; second and third joint short, but the fourth and fifth longer.

The characters of this species are less strongly marked than in others of this genus, and they seem to form a transition to those of the next genus. The anal styles are still very distinctly organs of locomotion, in which respect they resemble those of Scolopendra and Cryptops.

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\begin{aligned}
& \text { Sub-Genus Necrophloophagus*, Newport. } \\
& \text { Geophilus**, Leach. } \\
& \text { Geophili longicornes, Gervais. }
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Characters.-Frontal segment quadrate, a little longer than broad, with the angles obtuse ; antennæ inserted on the front, sub-approximated, more than three times as long as the frontal segment, with the joints twice as long as broad, conic ; basilar segment short, with the posterior margin much wider than the frontal ; mundibles short, strong, with the internal margin rounded, toothless; labium broad, almost quadrate, with the border emarginated; body somewhat tapering; legs more than fifty pairs; preanal segment narrow, styles short.

## Species Necrophwophagus longicornis, Leach.

Yellow, with the segments of the head, mandibles and labium dark ferruginous; antennæ hairy, four times as long as the frontal segment, with the three or four terminal joints smaller than the others; labium smooth, with minute punctures, subconic; anteriorly wide and almost straight, posteriorly rounded; legs yellow, fifty-five pairs, anal styles small, slightly hairy.

Length two and a half to three inches. Europe: very common.
I have retained Dr. Leach's original name to this species, which has been supposed by M. Gervais to be the Scolopendra electrica of Linnæus. But Linnæus's species is described as " pedibus utrinque 70;" while Leach's species, of which there are four specimens in the cabinet at the British Museum, besides ten collected by other persons, has at most only fifty-five.

## Genus Gonibregmatus $\dagger$, Newport.

Characters.-Frontal segment short, transverse, anteriorly pointed;


+ From $\gamma \omega{ }^{\omega} i\left(\alpha\right.$, angle, and $\beta \xi^{i} \gamma \mu \alpha$, the fore part of the hearl.
basilar segment very short, wider than the frontal ; antenna moniliform, approximated at their base, joints very short, with the terminal one slightly elongated; eyes absent; mandilles very slender, long, pointed, arcuate, toothless, compressed and twisted near their base; labium very short, transverse, with the anterior border slightly produced and emarginated; labium internum projecting, thick, folded, and formed for sucking; palpi with the terminal joints slender and acute ; sub-basilar segment short, but larger than the basilar; body elongated, segments more than 160 ; legs inserted into little foveolæ in the lateral ventral plates; the two or three posterior segments of the body enlarged and tuberose; anal styles small, not used in walking.

1. Gonibregmatus Cumingii, Newport.

Greyish ash-colour; frontal segment very convex, rounded posteriorly; mandibles blackish; labium smooth; all the segments of the body very short, convex ; dorsal surface with numerous irregular longitudinal sulci; antepenultimate segment with the dorsal and ventral plates atrophied; anal styles slender, with their basilar internal margin carinated; anal scale convex, subcordate, posteriorly rounded with two thin marginal plates; legs 161 pairs, naked, claws black. Length $4 \frac{3}{4}$ to 5 inches.

From the Philippine Islands. Mr. Cuming.
In the collection at the British Museum.
I have never seen the Geophilus Walckenari of Gervais, but from the description given of that species I strongly suspect that it ought to be included in this genus.

Mr. Gould then, at the request of the Chairman, exhibited some new species of the genus Ortyx, which he thus characterizes:-

Ortyx nigrogularis. Ort. vertice et corpore superiore splendidè fuscis; striga nigra superciliari, a rostro usque ad occiput; et super hanc striga albd; sub oculos lined albd a rostro ad plumas suriculares, et per latera colli excurrente, gulamque nigram circumdunte plumis pectoris et abdominis albis nigro marginatis angustè apud pectus, latè et distinctè apud abdomen, et sese squamation ostendentibus; femoribus crissoque arenaceo-castaneis ; plumis lateralibus in medio albis.
Crown and all the upper surface rich brown; margins of the tertiaries and wing-coverts fawn-colour; these feathers are also crossed with indistinct zigzag lines, freckles, and blotches of black and blackish brown ; primaries greyish brown; tail deep bluish grey, the centre feathers and the external margins of the remainder freckled with reddish brown and buff; a black stripe, commencing at the base of the bill, passes over the eye to the occiput; above this a stripe of white; below the eye a white line from the base of the bill to the ear-coverts, down the sicles of the neck, and encircling the throat, which is jet black; feathers of the chest and abdomen white, margined with a zone of black; narrow on the chest, broad and distinct on the abdomen ; giving the under surface a scaly appearance ; flanks, thighs and under tail-coverts sandy chestnut, the centre of cach of the flank-feathers white ; bill black; feet flesh-white.


[^0]:    - From $\mu \dot{\eta} \times เ \sigma \tau 0 \varsigma$, longest, and $x € \varphi \alpha \lambda \dot{\eta}$, head.

